Amendments to the Claims:

1. (currently amended) A phase locked loop (PLL) system for generating an output signal according to a first reference signal, the output signal being used as a reference clock to write recording data on an optical medium, the PLL system comprising:

a clock generator receiving the first reference signal and a first frequency-divided signal to generate the output signal according to a phase difference between the first reference signal and the first frequency-divided signal;

a phase-shift detector generating a phase adjusting signal corresponding to a phase difference between the output signal and the first reference signal; and

a phase-controllable frequency divider connected to the clock generator and the phase-shift detector for dividing the frequency of the output signal by a frequency dividing ratio to generate the first frequency-divided signal and for receiving the phase adjusting signal to adjust ~~thephase~~ the phase of the first frequency-divided signal;

wherein the phase-controllable frequency divider adjusts the frequency dividing ratio according to the phase adjusting signal.

2. (cancelled)

3. (currently amended) The PLL system of claim 1 wherein the phase-controllable frequency divider comprises a counter for counting the ~~outputsignal~~ output signal, and the phase-controllable frequency divider generates the first frequency-divided signal according to the count value.

4. (original) The PLL system of claim 3 wherein the phase-controllable frequency

divider adjusts the count value according to the phase adjusting signal.

5. (original) The PLL system of claim 1 wherein the first reference signal is a wobble signal generated from the optical medium.

6. (original) The PLL system of claim 5 wherein the phase-shift detector comprises:
a frequency divider dividing the output signal to generate a second frequency-divided signal; and
a phase difference detector connected to the frequency divider for detecting a phase difference between the second frequency-divided signal and the wobble signal to generate the phase adjusting signal.

7. (original) The PLL system of claim 5 wherein the phase-shift detector comprises:
a first frequency divider dividing the output signal to generate a second frequency-divided signal;
a second frequency divider dividing the wobble signal to generate a third frequency-divided signal; and
a phase difference detector connected to the first and second frequency dividers for detecting a phase difference between the second frequency-divided signal and the third frequency-divided signal to generate the phase adjusting signal.

8. (original) The PLL system of claim 5 wherein the phase-shift detector detects a phase difference between the wobble signal and a recording synchronization signal synchronous to the recording data for generating the phase adjusting signal.

9. (original) The PLL system of claim 5 wherein the optical medium is a DVD-R/RW disk.

10. (original) The PLL system of claim 5 wherein the optical medium is a DVD+R/RW disk.

11. (original) The PLL system of claim 5 wherein the phase-shift detector comprises:

a frequency divider dividing the wobble signal to generate a second frequency-divided signal; and

a phase difference detector connected to the frequency divider for detecting a phase difference between the second frequency-divided signal and a recording synchronization signal synchronous to the recording data to generate the phase adjusting signal.

12. (original) The PLL system of claim 5 wherein the optical medium is a DVD+R/RW disk, and the phase-shift detector comprises:

an ADIP sync detector generating an ADIP synchronization signal synchronous to the ADIP units of the optical medium;

a frequency divider for dividing the output signal to generate a second frequency-divided signal; and

a phase difference detector connected to the frequency divider and the ADIP sync detector for detecting a phase difference between the second frequency-divided signal and the ADIP synchronization signal to generate the phase adjusting signal.

13. (original) The PLL system of claim 5 wherein the optical medium is a DVD+R/RW disk, and the phase-shift detector comprises:

an ADIP sync detector generating an ADIP synchronization signal synchronous to the ADIP units of the optical medium; and

a phase difference detector connected to the ADIP sync detector for detecting a phase

difference between the ADIP synchronization signal and a recording synchronization signal synchronous to the recording data to generate the phase adjusting signal.

14. (original) The PLL system of claim 5 wherein the optical medium is a DVD-R/RW disk, and the phase-shift detector comprises:

a land-pre-pit (LPP) sync detector detecting LPP bits to generate an LPP synchronization signal;

a frequency divider dividing the output signal to generate a second frequency-divided signal; and

a phase difference detector connected to the frequency divider and the LPP sync detector for detecting a phase difference between the second frequency-divided signal and the LPP synchronization signal to generate the phase adjusting signal.

15. (original) The PLL system of claim 5 wherein the optical medium is a DVD-R/RW disk, and the phase-shift detector comprises:

a land-pre-pit (LPP) sync detector detecting LPP bits to generate an LPP synchronization signal; and

a phase difference detector connected to the LPP sync detector for detecting a phase difference between the LPP synchronization signal and a recording synchronization signal synchronous to the recording data to generate the phase adjusting signal.

16. (original) The PLL system of claim 5 wherein the phase-shift detector comprises:

a physical address detector detecting a physical address on the optical medium; and

a position difference detector for detecting a position difference between the physical address and a logical address of the recording data to generate the phase adjusting signal.

17. (original) The PLL system of claim 5 wherein the phase-shift detector comprises:
a physical address detector detecting a physical address on the optical medium;
a logic address detector detecting a logical address of the recorded data on the optical medium; and
a position difference detector for detecting a position difference between the physical address and the logical address of the recorded data to generate the phase adjusting signal.

18. (currently amended) A method for generating an output signal according to a first reference signal, the output signal being used as a reference clock to write recording data on an optical medium, the method comprising:
receiving the first reference signal and a first frequency-divided signal to generate the output signal according to a phase difference between the first reference signal and the first frequency-divided signal;
generating a phase adjusting signal corresponding to a phase difference between the output signal and the first reference signal;
dividing the frequency of the output signal ~~bya~~ by a frequency dividing ratio to generate the first frequency-divided signal; ~~and~~
receiving the phase adjusting signal to adjust ~~thephase~~ the phase of the first frequency-divided signal~~.~~; and
adjusting the frequency dividing ratio according to the phase adjusting signal.

19. (cancelled)

20. (original) The method of claim 18 further comprising:
counting the output signal to generate a count value, and generating the first frequency-divided signal according to the count value.

21. (original) The method of claim 20 further comprising:
adjusting the count value according to the phase adjusting signal.

22. (original) The method of claim 18 wherein the first reference signal is a wobble signal generated from the optical medium.

23. (original) The method of claim 22 wherein generating the phase adjusting signal comprises:
dividing the output signal to generate a second frequency-divided signal; and
detecting a phase difference between the second frequency-divided signal and the wobble signal to generate the phase adjusting signal.

24. (original) The method of claim 22 wherein generating the phase adjusting signal comprises:
dividing the output signal to generate a second frequency-divided signal;
dividing the wobble signal to generate a third frequency-divided signal; and
detecting a phase difference between the second frequency-divided signal and the third frequency-divided signal to generate the phase adjusting signal.

25. (original) The method of claim 22 wherein generating the phase adjusting signal comprises:
detecting a phase difference between the wobble signal and a recording synchronization signal synchronous to the recording data for generating the phase adjusting signal.

26. (original) The method of claim 22 wherein the optical medium is a DVD-R/RW disk.

27. (original) The method of claim 22 wherein the optical medium is a DVD+R/RW disk.

28. (original) The method of claim 22 wherein generating the phase adjusting signal comprises:

dividing the wobble signal to generate a second frequency-divided signal; and

detecting a phase difference between the second frequency-divided signal and a recording synchronization signal synchronous to the recording data for generating the phase adjusting signal.

29. (original) The method of claim 22 wherein the optical medium is a DVD+R/RW disk, and generating the phase adjusting signal comprises:

generating an ADIP synchronization signal synchronous to the ADIP units of the optical medium;

dividing the output signal to generate a second frequency-divided signal; and

detecting a phase difference between the second frequency-divided signal and the ADIP synchronization signal to generate the phase adjusting signal.

30. (original) The method of claim 22 wherein the optical medium is a DVD+R/RW disk, and generating the phase adjusting signal comprises:

generating an ADIP synchronization signal synchronous to the ADIP units of the optical medium; and

detecting a phase difference between the ADIP synchronization signal and a recording synchronization signal synchronous to the recording data to generate the phase adjusting signal.

31. (original) The method of claim 22 wherein the optical medium is a DVD-R/RW disk, and generating the phase adjusting signal comprises:

detecting LPP bits to generate an LPP synchronization signal;

dividing the output signal to generate a second frequency-divided signal; and

detecting a phase difference between the second frequency-divided signal and the LPP synchronization signal to generate the phase adjusting signal.

32. (original) The method of claim 22 wherein the optical medium is a DVD-R/RW disk, and generating the phase adjusting signal comprises:

detecting LPP bits to generate an LPP synchronization signal; and

detecting a phase difference between the LPP synchronization signal and a recording synchronization signal synchronous to the recording data for generating the phase adjusting signal.

33. (original) The method of claim 22 wherein generating the phase adjusting signal comprises:

detecting a physical address on the optical medium; and

detecting a position difference between the physical address and a logical address of the recording data to generate the phase adjusting signal.

34. (original) The method of claim 22 wherein generating the phase adjusting signal comprises:

detecting a physical address on the optical medium;

detecting a logical address of the recorded data on the optical medium; and

detecting a position difference between the physical address and a logical address of the recorded data to generate the phase adjusting signal.